

CERTIFIED MAIL ARTICLE NUMBER 7002 0860 0006 9104 7828 RETURN RECEIPT REOUESTED

April 27, 2016

Ms. Wren Thedford NCDEQ Division of Water Resources **NPDES Unit** 1617 Mail Service Center Raleigh, North Carolina 27699-1617

RECEIVED/NCDEQ/DWR

MAY 0 3 2016

SUBJECT: NPDES Permit Renewal Application

NPDES Permit No. NC0003573

Water Quality **Permitting Section**

Dear Ms. Thedford:

The Chemours Company - Fayetteville Works is requesting renewal of NPDES Wastewater Discharge Permit No. NC0003573. Since the issuance of the last permit, the ownership of this facility changed from the DuPont Company to The Chemours Company FC, LLC. Also, two separate companies, Kuraray America Inc. and the DuPont Company, are operating manufacturing units and are treating and discharging their wastewaters under the Chemours' NPDES Permit.

Enclosed are the original and two copies of the General Information Form 1 (Form 3510-1), Wastewater Discharge Information Form 2C (Form 3510-2C), and additional required supporting documentation for renewal of the subject permit by the NC Division of Water Resources.

Included in the permit application are the following supplemental information documents: Sludge Management Plan, Current Facility Wastewater Management, Current Facility Operating Conditions, Alternate Application Schedule for §316(b) of the Clean Water Act, Elimination of Monitoring Requirement for PFOA, and the non-reporting of bis(chloromethyl) ether.

If you have any questions or need additional information, please contact me at (910) 678-1155.

Sincerely

Liehaer E. Johnson, PE

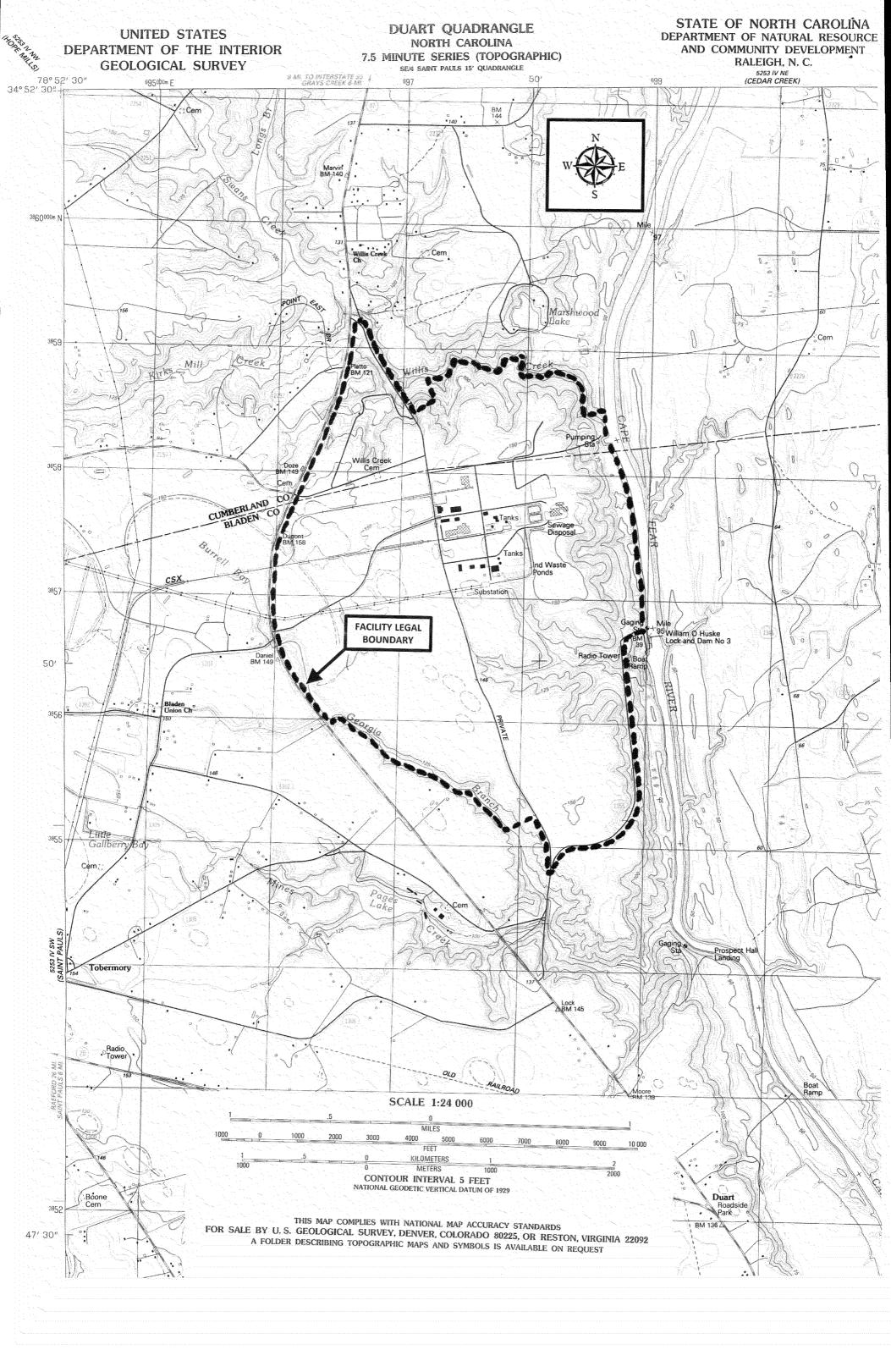
Environmental Manager

Enclosures

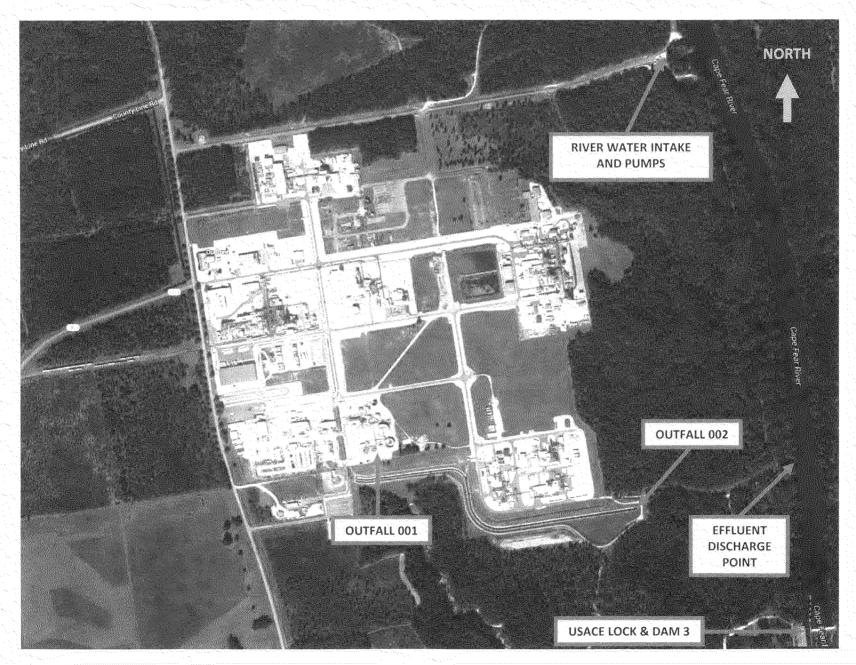
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VI FACILITY	LOCATION	,						descriptions and for the legal author data is collected	nzations	s under	which this	
II POLLUTANT	CHARACTERIS	TICS										
submit this form	m and the supple o" to each questio	mental form listed in the parei	thesi:	forms bold-f	wing the qu s. You may aced terms	es an	tion Mark "X" in the box in	he EPA If you answer "yes" to ar the third column if the supplemen excluded from permit requirements	ıtal for	m is a Sectio	ttached If n C of the	
	SPECIFIC QU	ESTIONS	YES	Mark NO	FORM ATTACHED		SPECIFIC	QUESTIONS	YES	Mark NO	FORM ATTACHED	
		ned treatment works which ers of the U.S.? (FORM 2A)		X	16	В	include a concentrated	(either existing or proposed) animal feeding operation or ion facility which results in a	19	× 20	21	
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	he U.S. other tha	tly results in discharges to in those described in A or B	X		X			sult in a discharge to waters of	25	26	27	
·	<u> </u>	reat, store, or dispose of	22	23	24	F	Do you or will you inie	ect at this facility industrial or	45	20	£!	
	wastes? (FORM		X				municipal effluent bel	ow the lowermost stratum quarter mile of the well bore,		X		
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or other fluction values	uids which are with conventional used for enhance	s facility any produced water brought to the surface in oil or natural gas production, ed recovery of oil or natural age of liquid hydrocarbons?		×			processes such as mining solution mining of minera	Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)				
(FORM 4)			34	35	36	1_		37	38	39		
of the 28 inc which will p pollutant reg	dustrial categories potentially emit 10 gulated under the	ionary source which is one listed in the instructions and 00 tons per year of any air Clean Air Act and may affect	×			J	NOT one of the 28 ind instructions and which w year of any air pollutant re	ed stationary source which is lustrial categories listed in the ill potentially emit 250 tons per egulated under the Clean Air Act		×		
or be located	d in an attainment	: area? (FORM 5) →	40	41	42		and may affect or be lo (FORM 5)	ocated in an attainment area?	43	44	45	
III NAME OF	FACILITY											
c SKIP C	hemours Co	ompany - Fayette	vil	le	 Works	1			1		•	
15 16 - 29 30									69			
IV FACILITY	CONTACT											
		A NAME & TITLE (last	first,	& title)				B PHONE (area code & no)				
2 Johnso	on, Michae	l, Environmenta	l l	anaç	ger			(910) 678-1155				
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15 16					·		45					
		B CITY OR TOWN				_	C STATE	D ZIP CODE				
Fayett	eville '		'				NC 2	8306 1 1				
VI. FACILITY	LOCATION	10.00										
		REET, ROUTE NO OR OTHE	R SPI	CIFIC	IDENTIFIE	ER					-	
	NC Highwa	y 87 W ' ' ' '			1 1 1		45					
15 16		B COUNTY	' NAM	E			45					
Bladen		ł			1 1	1		70				
	eville	C CITY OR TOWN						E ZIP CODE F COUNTY C 8306 3701	7	if know	(n)	
15 16 EPA Form 3510	1-1 (8-90)						40 41 42 47		-54 NTINU	JE ON	REVERSE	

CONTINUED FROM THE FRONT	
VII SIC CODES (4-digit, in order of priority) A FIRST	B SECOND
C (specify) INDUSTRIAL ORGANIC CHEMICALS	C
7 2869	7 3083 (specify) addition 2 1201100 12111, 1211 1101100 12111
15 16 · 19 C THIRD	15 16 - 19 D FOURTH
C (specify)UNSUPPORTED PLASTICS FILM AND SHEET	C ((necifi) PLASTIC MATERIALS AND RESINS
7 3081 NOTE Kuraray Butacite Butacite® and SentryGlas® shee	· · · · · · · · · · · · · · · · ·
VIII OPERATOR INFORMATION	15 16 - 19
A NAME	B.Is the name listed in Item
8 The Chemours Company FC, LLC	✓ I I I I I I I I I I VIII-A also the owner?
8 The Chemours Company FC, LLC	
C. STATUS OF OPERATOR (Enter the appropriate letter	into the answer box if "Other," specify) D PHONE (area code & no)
E - FEDERAL	(specify)
S = STATE	P (302) 773-1000
I P = PRIVATE	56 15 6 - 18 19 - 21 22 - 26
E STREET OR P O BOX	,
1007 Market Street	
26	55
F CITY OR TOWN	G STATE H ZIP CODE IX INDIAN LAND I I I I I I I I I I I I I I I I I I I
B Wilmington	DE 19898 DYES NO
15 18	40 41 42 47 - 51 52
X EXISTING ENVIRONMENTAL PERMITS	
	(Air Emissions from Proposed Sources)
C T NG	Title V Permit 03735
9 N 3 F	
15 16 17 18 30 15 16 17 18	30 E OTHER (specify)
B UIC (Underground Injection of Fluids)	
9 U N/A 9 WQC	0035431 (specify) Land Application Permit
15 18 17 18 30 15 16 17 18	30 S OTUER () ()
C RCRA (Hazardous Wastes)	E OTHER (specify)
9 R NCD047368642 9	і і і і і і і і і і і і і і і і і і і
15 16 17 18 30 15 18 17 18	30
XI MAP	
Attach to this application a topographic map of the area extending to at lea	ist one mile beyond property boundaries. The map must show the outline of the facility, the
location of each of its existing and proposed intake and discharge structures injects fluids underground. Include all springs, rivers, and other surface water	, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it hodies in the map area. See instructions for precise requirements
	Source III and
XII. NATURE OF BUSINESS (provide a brief description)	the DuPont Company - Fayetteville Works) is a fluorinated
chemicals manufacturer situated on a 2,200-acre pro	
The Chemours' products produced at the facility inc	clude fluorinated monomers and fluorinated vinyl ethers, processing aids. Chemours operates two natural gas / fuel
oil-fired boilers, which provides steam for the ent	
Also located at this facility are two tenant compar	nies: Kuraray America Inc. and the DuPont Company. Kuraray moplastic sheet and resin manufacturing unit and the
SentryGlas® ionoplast interlayer manufacturing unit	DuPont operates two polyvinyl fluoride (PVF) resin
manufacturing units.	
Chemoure receives and treats all of the Kuraray and	DuPont process wastewater, sanitary wastewater, and contact
stormwater in the Chemours' owned and operated wast	ewater treatment plant, and discharges that treated
wastewater through Outfall 001 under the Chemours'	NPDES Wastewater Discharge Permit (Permit No. NC0003573).
The Kuraray and DuPont non-contact cooling waters a Chemours' NPDES Wastewater Discharge Permit.	and stormwaters are discharged through Outfall 002 under the
Chemodis Wibbs Wastewater Disenting Termit.	
XIII CERTIFICATION (see instructions)	
	or with the information submitted in this application and all attachments and that, based on my
am aware that there are significant penalties for submitting false information,	on contained in the application. I believe that the information is true, accurate, and complete. I including the possibility of fine and imprisonment.
A. NAME & OFFICIAL TITLE (type or print) B. SIGN	
A. HAIME & OFFICIAL TITLE (1996 of print)	March 1
Ellis H. McGaughy - Plant Manager	1. 41 1/1 Huch 412712016
i Qu	do NIT (Notes)
COMMENTS FOR OFFICIAL USE ONLY	
	1

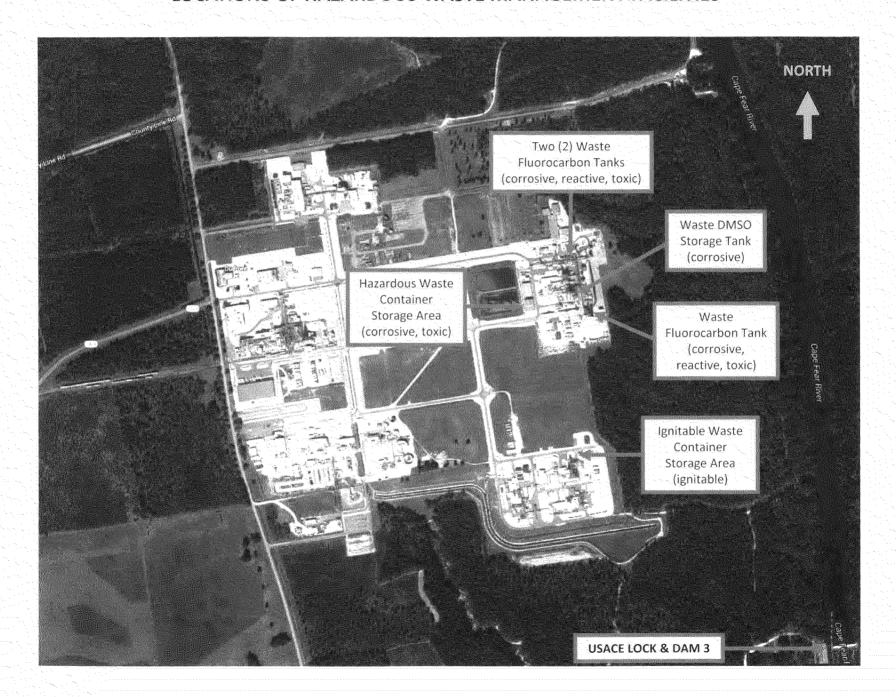
15 16 EPA Form 3510-1 (8-90)

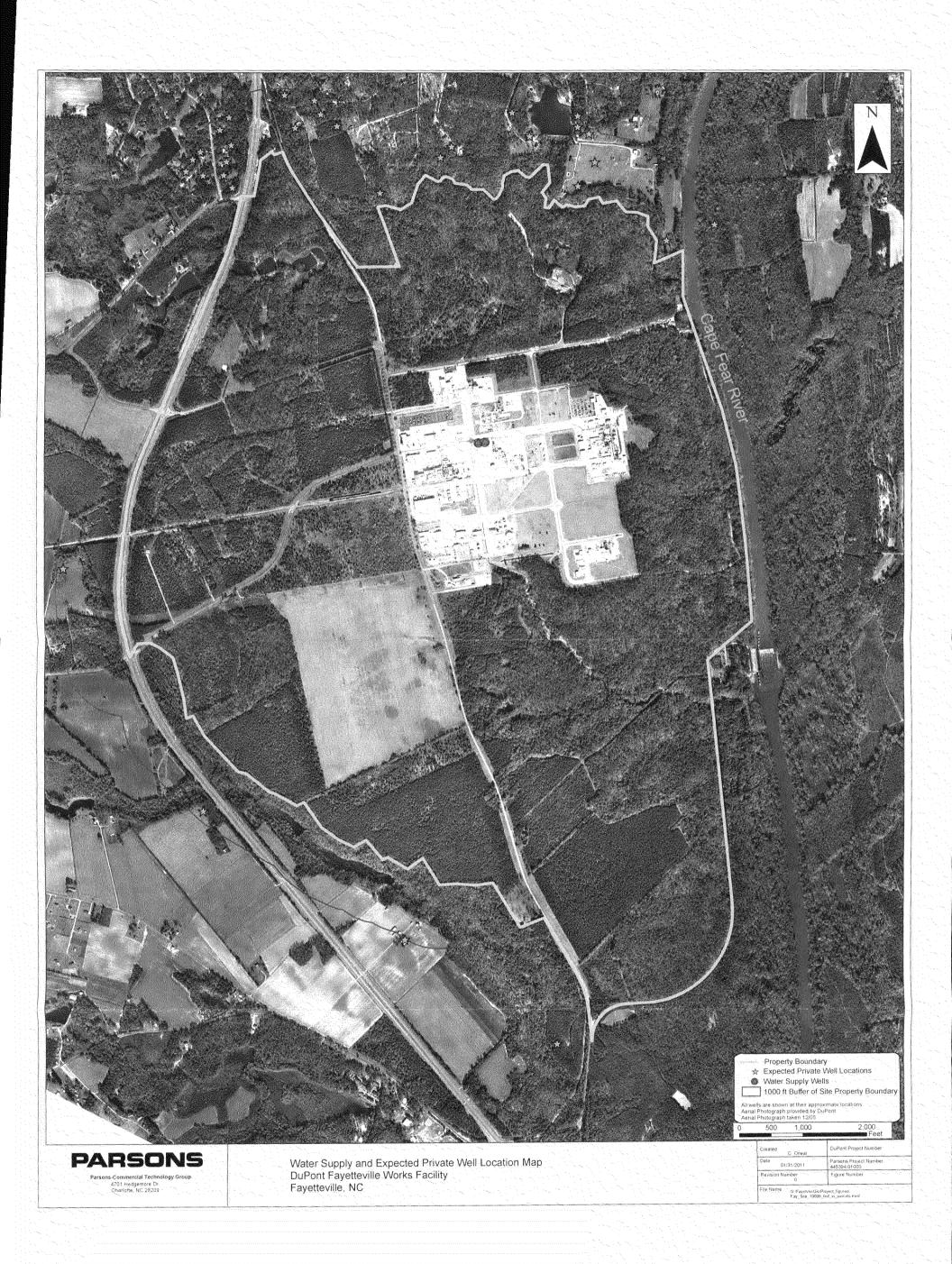


CHEMOURS COMPANY – FAYETTEVILLE WORKS LOCATIONS OF INTAKE AND DISCHARGE STRUCTURES



CHEMOURS COMPANY – FAYETTEVILLE WORKS LOCATIONS OF HAZARDOUS WASTE MANAGEMENT FACILITIES





EPA LD. NUMBER (copy from Jun 1 of Form 1)

NCD 047 368 642

Form Approved. OMB No. 2040-0086. Approval expires 3-31-98.

Please print or type in the unshaded areas only

FORM **SEPA** 2C **NPDES**

U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER

EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS Consolidated Permits Program

1	0	ITFALL	- 1	CCAT	TION .

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water

A. OUTFALL NUMBER		B. LATITUDE		C	LONGITUDI	E					
(list)	1 DEG.	2 MIN.	3 SEC	1 DEG	2. MIŅ.	3 SEC.	D. RECE	EIVING WATER (name)		·	
001	34.00	50.00	22.93	-78.00	50.00	11.47	Cape Fear River				
002	34.00	50.00	21.58	-78.00	49.00	25.70	Cape Fear River		1	``	
*.			1, 1								
					State of the state			N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1			
			*** ; *** ** **		S	*****					

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures
- B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation, and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1 OUT-	2. OPERATION(S) CONT	RIBUTING FLOW	3. TREATMENT						
FALL NO. (list)	a. OPERATION (/tst)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b LIST COU TABLE					
001	Chemours Manufacturing Processes	159,361 gal/day	BIOLOGICAL WASTEWATER TREATMENT PLANT						
	Kuraray Butacite Mfg Process	655,657 ga1/day	(i) Influent Sump	1-0					
	Kuraray SentryGlas Mfg Process	0 gal/day	(2) Equalization with mixing and aeration	1-0	3 E				
	DuPont 2VF Mfg Processes	211,654 gal/day	(3) Emergency Retention Tank	1-0					
1.54.5	Demin Water Neutralized Regenerate	75,000 gal/day	(4) Pre-Digester Tank	3 · E					
	Sanitary Sewer	10.000 gal/day	(5) Activated Sludge Aeration Tank	3 A					
	Process Areas Stormwater	94,216 gal/day	(6) (Clarification (3 clarifiers in parallel)	1-0					
	TOTAL INFLUENT TO WWTP	1,205,888 gal/day							
	Evaporation from WWTP Operations	50,000 gal/day	BIOLOGICAL SLÜDGE (SOLIDS) MANAGEMENT		<u></u>				
	Evaporation from Sludge Drying	-19,943 gal/day	(1) Dissolved Air Floration	5 J	***************************************				
	Water Content of Landfilled Sludge	2,493 gal/day	(2) Rotary Filter	5.0					
	OUTFALL 801 - TOTAL EFFLUENT	1,133,452 gal/day	(3) Sludge Filter Press	8 - R	***************************************				
			(4) Sludge Steam-Heated Dryers	5 · M					
			(5) Disposal at Off-site Landfill	5.·Q.					
002	Outfall 001 Treated Effluent	1,133,452 gal/daŷ-							
0.73.77	Non-Contact river water	23,067,845 gal/day							
	Non-contact filtered water	1,923,328 gal/day							
	Scormwater	214,509 gal/day							
100	Sediment Removal	50,000 gal/day							
	Boiler Condensace Blowdown	324,000 dal/day			1				
	OUTFALL 002 - TOTAL EFFLUENT	26,813,133 gal/day	Discharge to surface water (Cape Fear Rivel)	4 - A					

OFFICIAL USE ONLY (effluent guidelines sub-categories)

CONTINUE ON REVERSE PAGE 1 of 4 EPA Form 3510-2C (8-90)

	YES (complete the follows			Į¥.	NO (go to Sec	ermittent or sea non ///)					
and the second second			. 5 . 15 . 15	3 FREC	QUENCY			4 FLOW			
			a DA	YS PER					VOLUME	1	
1. OUTFALL NUMBER (list)	CONTRIE	ERATION(s) BUTING FLOW (livi)	(sp	EEK ccifi rage)	b MONTHS PER YEAR (specify average)	a FLOW RA 1 LONG TERM AVERAGE	TE (in mgd) 2 MAXIMUM : DAILY	1 LONG TERM AVERAGE	1 2 MAXIMUN DAILY	C DUR	
			grinar tu sa			TATE TO TO L	3.110				
				4,189					11111		
							1.5	A 158 mg.			
						Santa Control					
	And Danker	and the second									
III. PRODUCTIO	NI.				C5.85						
	uent guideline limitation p	yamulaated by EP	å under Section 3	304 of th	ne Clean Water	Act apply to you	ır facility?	- N. A.			
	YES (complete Item III-B		A Milder Occupii s	JO-101 E	NO (go to See						
	ations in the applicable el		pressed in terms	of prod			ration)?		1 1 1 1 1 1 1 1		
	YES (complete Item III-C)		¥	🖊 NO (go to Sec	tion IU)					
C. If you answe	ered "yes" to Item III-B, I	ist the quantity wh	ich represents ar	actual	measurement	of your level of	production, exp	ressed in the	terms and ur	nits used in	
applicable e	ffluent guideline, and ind		outfalls E DAILY PRODU	ICTION							
					ON, PRODUCT.	MATERIAL E	·C.		FECTED OUT		
a. QUANTITY	PER DAY b. UNITS	OF MEASURE	0. 0.		(specify)			(list outfall numbers)			
IV. IMPROVEM											
A Are you no	ENTS w required by any Fede quipment or practices or itions, administrative or e YES (complete the follow	any other environnenforcement orders	nental programs v	which m mplianc	nav affect the dis	scharges descri ers, stipulations,	bed in this app	ication? This i	ncludes, but i	of wasters	
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A Are you no treatment ed permit cond 1 IDENTIFICA AGRE	w required by any Fediquipment or practices or itions, administrative or eyes (complete the follow TION OF CONDITION, EMENT, ETC.	any other environmenforcement orders ring rable) 2 AFFECTE a NO b SOI	nental programs v., enforcement co	which mmplianc	ter pollution co	ers, stipulations, in (11-15) DESCRIPTION Introl programs in underway or p	bed in this app court orders, a	ication? This i	iects which n	s not limit	

EPA I.D. NUMBER (copy from Item 1 of Form 1)

NCD 047 368 642

CONTINU	100	COOM	りょうにっ

f) I lea the engine believed that a constitute	V-C are included on separate sheets number	sted v-1 tillough v-9.	
from any outfall. For every pollutant y	e pollutants listed in Table 2c-3 of the instru ou list, briefly describe the reasons you belie	ctions, which you know or have reason to beli eve it to be present and report any analytical da	eve is discharged or may be discharge ita in your possession.
1. POLLUTANT	2 SOURCE	1. POLLUTANT	2 SOURCE
one of the pollutants listed n Table 2C-3 are believed to			
present in the wastewater scharge from thi site.			
		The second second second	The state of the second se
POTENTIAL DISCHARGES NOT CO	VEDED BY ANALYSIS		947
itimony inzene			
,2-dichloroethane ethylene chloride			
oluene			

CONTINUED FROM THE FRONT VII. BIOLOGICAL TOXICITY TESTING DATA Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years? YES (identify the test(s) and describe their purposes below) NO (go to Section UIII) The "North Carolina Ceriodaphnia Chronic Effluent Bioassay Procedure" is performed each quarter in accordance with the requirement of condition A(4) of the facility's NPDES Permit. The NCDEQ Division of Water Resources has copies of the Form AT-1 test results that were submitted with the Discharge Monitoring Reports during the period from February 2012 through February 2016. The quarterly chronic test performed during February 2012, failed for the ceriodaphnia dubia reproduction. The required monthly chronic tests performed in March and April 2012 both passed. No other toxicity test failures occurred during the five-year term of the current permit. VIII. CONTRACT ANALYSIS INFORMATION Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm? NO (go to Section 13) YES (list the name, address, and telephone number of, and pullutants analyzed by each such laboratory or firm below) D. POLLUTANTS ANALYZED C TELEPHONE A NAME B ADDRESS (area/code & no.) (list) 910-738-6190 Chemical Oxygen Demand 2401 West 5th Street TBL (COD); Total Organic Carbon (TOC); Total Suspended Solids (TSS); Ammonia (as N); Color; Lumberton, NC Ammonia (as N); Fecal Coliform; Nitrate-Nitrite (as N); Nitragen; Total Organic (as N); Oil and Grease; Total Phosphorus (as P); Sulfate (as SO4); Surfactants; Total surractants; Total
Aluminum; Total Iron;
Total Magnesium; Total
Manganese; Part C Metals,
Cyanide, and Total Phenols;
Part C GC/MS - Volatile
Compounds: Part C GC/MS Compounds; Part C GC/MS Acid Compounds; Part C GC/MS - Base/Neutral Compounds; Part C GC/MS Fraction - Pesticides IX CERTIFICATION I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

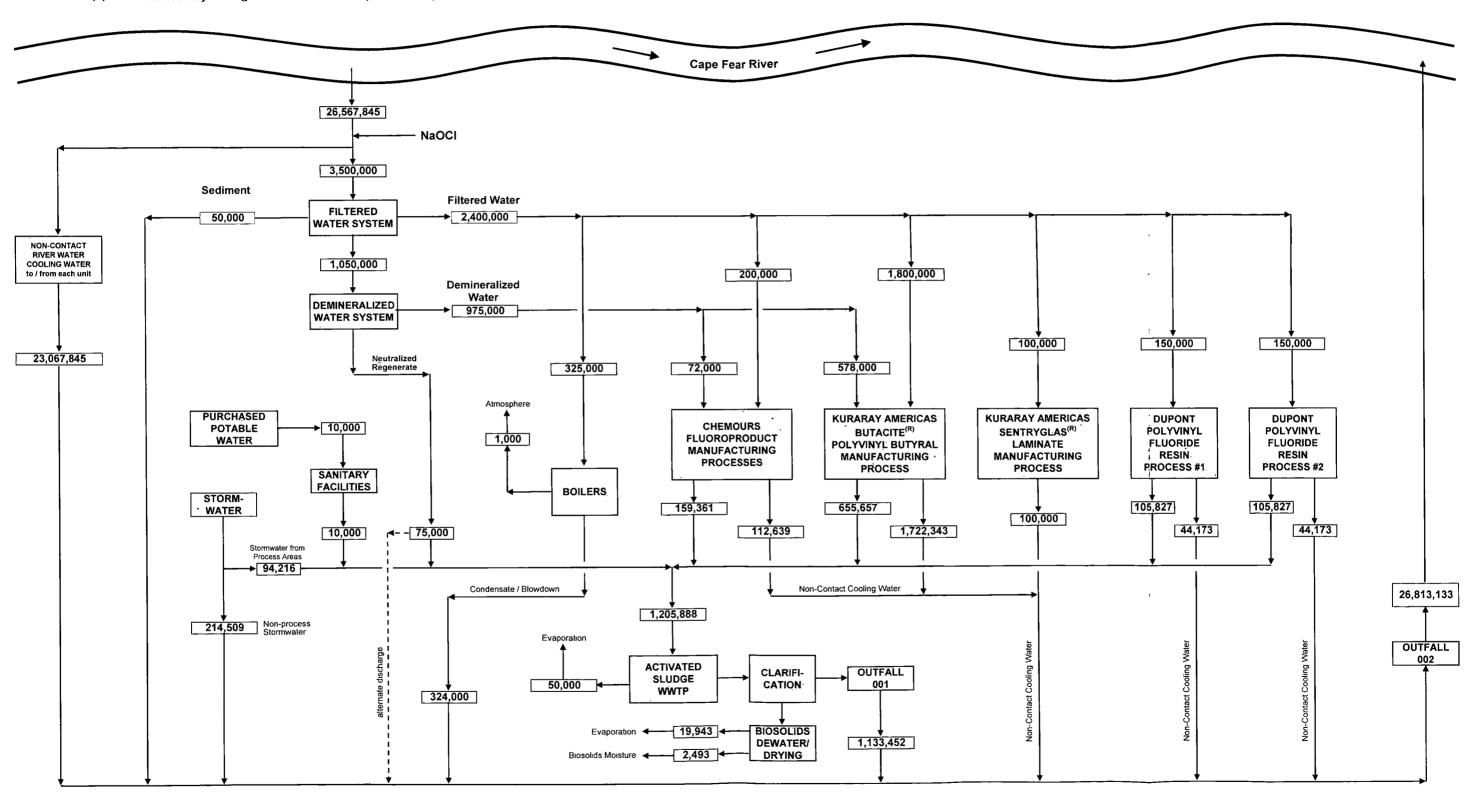
A. WANTE & OF FIGURE THEE VIEW PRINTY		C. T. HOUSE TOO. QUICKERS	e se conditi		
Ellis H. McGaughy - Plant Manager		(910) 678-1224			
C SIGNATURE A. M' Dance	ilin	D DATE SIGNED	127	12016	
EPA Form 3510-20 (8.90)	PAGE 4 of 4				

ED_002096A_00003008-00011

FORM 2C ITEM II-A: LINE DRAWING

WATER BALANCE (Revised 04-21-2016)

Flow Units: Gallons per Day Basis: (1) All Manufacturing Units operating (2) Maximum 30-day average of measured flows (2013 - 2015)



PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages SEE INSTRUCTIONS.

EPA I.D NUMBER (copy from Item 1 of Form 1)
NCD 047 368 642

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.

PART A -You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

,												
J	<u> </u>			2. EFFLUE				3, UNI			4. INTAKE (optional)	
1	a MAXIMUM DAI	AILY VALUE	b. MAXIMUM 30 t		c. LONG TERM AVRO		J., NO. 05	00110		a. LONG 1 AVERAGE		
1. POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1)	Т "	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (BOD)	71.0	675.9	26.8	207.1	5.8	37.8	465	mg/L	lb.	n/a	n/a	n/a
b. Chemical Oxygen Demand (COD)	32.1	313.2					1	mg/L	lb.	n/a	n/a	n/a
c. Total Organic Carbon (TOC)	84.9	828.4				1	1	mg/L	lb.	n/a	n/a	n/a
d. Total Suspended Solids (TSS)	44.0	387.8	22.0	177.0	9.8	54.6	465	mg/L	lb.	n/a	n/a	n/a
e. Ammonia (as N)	0.414	4.0				1	1	mg/L	lb.	n/a	n/a	n/a
f. Flow	VALUE 1.627	.7	VALUE 1.13	13	VALUE 0.907	,	1095	MGD	MGD	VALUE n/a	a	n/a
g Temperature (winter)	VALUE 26.0	0	VALUE 22.2	2	VALUE 18.4		118	°C	°C VALUE n		a	n/a
h. Temperature (summer)	VALUE 32.0	0	VALUE 30.6	6	VALUE 29.0			°c	;	VALUE n/a		n/a
i. pH	MINIMUM 6.37	MAXIMUM 8.47	MINIMUM n/a	MAXIMUM n/a			374	STANDARD	.D UNITS			

PART B — Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

qua			anation of their pres	sence in your o	discharge. Complete		each outfall. See the	instructions fo	r additional det	ails and requiren	nents.			·
LA DOLLUTANT	2. MA	RK "X"				EFFLUENT				4. UNITS		5. INTAKE (optional)		
1. POLLUTANT AND a. CAS NO. BELIEV		ь	a. MAXIMUM DA	NLY VALUE	b. MAXIMUM 30 (<i>if availa</i>			LONG TERM AVRG. VALUE (If available)		20110511		a. LONG TERM AVERAGE VALUE		
(ıf avaılable)	PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b NO. OF ANALYSES
a. Bromide (24959-67-9)		X												
b Chlorine, Total Residual	X		0.03	0.3					1	mg/L	lb.	n/a	n/a	n/a
c. Color	X		10	n/a		_			1	PCU	n/a	n/a	n/a	n/a
d. Fecal Coliform	X		est. 2	n/a					1	col/dL	n/a	n/a	n/a	n/a
e. Fluoride (16984-48-8)	X		170	1659					1	mg/L	lb.	n/a	n/a	n/a
f. Nitrate-Nitrite (as N)	X		0.065	0.6					1	mg/L	lb.	n/a	n/a	n/a

EPA Form 3510-2C (8-90)

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CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

TIEM V-B CONT	2. MAI			_	3.	EFFLUENT				4. UNI	TS	5. INT.	AKE (optiona	ıl)
1. POLLUTANT AND	a,	ь	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (ıf avaıla		c. LONG TERM A'					a. LONG TI AVERAGE V		
CAS NO. (ıf avaılable)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)	X		1.016	9.9					1	mg/L	lb.	n/a	n/a	n/a
h. Oil and Grease	X		<5.6	<50.0	5.2	42.5	0.26	1.87	36	mg/L	lb.	n/a	n/a	n/a
(as P), Total (7723-14-0)	X		12.4	121.0					1	mg/L	lb.	n/a	n/a	n/a
j. Radioactivity	· .									'				
(1) Alpha, Total		X												
(2) Beta, Total		X						:						
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k, Sulfate (as SO ₄) (14808-79-8)	X		1083	10568					1	mg/L	lb.	n/a	n/a	n/a
1. Sulfide (as S)		X			;									
m. Sulfite (as SO ₃) (14265-45-3)		X												
n. Surfactants	X		3.07	30.0					1	mg/L	lb.	n/a	n/a	n/a
o. Aluminum, Total (7429-90-5)	X		0.19	1.9					1	mg/L	lb.	n/a	n/a	n/a
p. Barium, Total (7440-39-3)		X												
q. Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s. Iron, Total (7439-89-6)	X		0.28	2.7					1	mg/L	lb.	n/a	n/a	n/a
t. Magnesium, Total (7439-95-4)	X		2.26	22.1					1	mg/L	lb.	n/a	n/a	n/a
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)	X		<0.005	<0.049					1	mg/L	lb.	n/a	n/a	n/a
w. Tin, Total (7440-31-5)		X												
x. Titanium, Total (7440-32-6)		X				_,								

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER
NCD 047 368 642 001

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industnes, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part, please review each carefully Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

	2	MARK "X	•			3. E	FFLUENT				4. UN	TS	5. INTA	KE (optiona	<i>1</i>)
1. POLLUTANT AND	а	b	c.	a. MAXIMUM DA	ILY VALUE	b MAXIMUM 30 [(ıf availal		c. LONG TERM VALUE (<i>if ava</i>		4 NO OF	a. CONCEN-		a. LONG TI AVERAGE V		b NO. OF
CAS NUMBER (ıf available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	b MASS	(1) CONCENTRATION	(2) MASS	ANALYSE:
METALS, CYANIDE	E, AND TOT	AL PHENO	LS												
1M. Antimony, Total (7440-36-0)	X			<0.002	<0.020		·			1	mg/L	lb.	n/a	n/a	n/a
2M. Arsenic, Total (7440-38-2)	X			<0.005	<0.049					1	mg/L	lb.	n/a	n/a	n/a
3M Beryllium, Total (7440-41-7)	X			<0.001	<0.010					1	mg/L	lb.	n/a	n/a	n/a·
4M. Cadmium, Total (7440-43-9)	X			<0.002	<0.020					1	mg/L	lb.	n/a	n/a	n/a
5M. Chromium, Total (7440-47-3)	X			0.010	0.070	0.010	0.070	0.004	0.034	4	mg/L	lb.	n/a	n/a	n/a
6M. Copper, Total (7440-50-8)	X			0.007	0.050	0.007	0.050	0.0055	0.047	4	mg/L	lb.	n/a	n/a	n/a
7M. Lead, Total (7439-92-1)	X			<0.003	<0.029					1	mg/L	lb.	n/a	n/a	n/a
8M Mercury, Total (7439-97-6)	X			<0.0002	<0.002					1	mg/L	lb.	n/a	n/a	n/a
9M. Nickel, Total (7440-02-0)	X			0.012	0.090	0.012	0.090	0.0083	0.065	4	mg/L	lb.	n/a	n/a	n/a
10M. Selenium, Total (7782-49-2)	X			<0.005	<0.049					1	mg/L	lb.	n/a	n/a	n/a
11M Silver, Total (7440-22-4)	X			<0.002	<0.020	,				1	mg/L	lb.	n/a	n/a	n/a
12M Thallium, Total (7440-28-0)	X			<0.005	<0.049					1	mg/L	lb.	n/a	n/a	n/a
13M. Zinc, Total (7440-66-6)	X			0.042	0.390	0.042	0.390	0.0343	0.286	4	mg/L	lb.	n/a	n/a	n/a
14M. Cyanide, Total (57-12-5)	X			<0.005	<0.049		_			1	mg/L	lb.	n/a	n/a	n/a
15M. Phenols, Total	X			<0.0400	<0.390	,				1	mg/L	lb.	n/a	n/a	n/a
DIOXIN	1				_		•								

2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)

CONTINUED FROM THE FRONT

CONTINUED FROM	,	2. MARK "X"				3 E	FFLUENT				4. UN	ITS		KE (optiona	i/)
1. POLLUTANT AND	a.	ь	С	a, MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [c. LONG TERM VALUE (if ava					a. LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED	BELIEVED ABSENT	(1) CONCENTRATION		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION	- VOLATIL	E COMPO	JNDS												
1V. Accrolein (107-02-8)	X			<0.0500	<0.488					1	mg/L	lb.	n/a	n/a	n/a
2V. Acrylonitrile (107-13-1)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
3V. Benzene (71-43-2)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
4V. Bis (Chloro- methyl) Ether (542-88-1)			X	Not Req	ired	per NCDWR	NPDES	Permitt'g	Unit						
5V. Bromoform (75-25-2)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
6V Carbon Tetrachloride (56-23-5)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
7V. Chlorobenzene (108-90-7)	X		į	<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
8V. Chlorodi- bromomethane (124-48-1)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
9V. Chloroethane (75-00-3)	X			<0.00500	<0.049	!				1	mg/L	lb.	n/a	n/a	n/a
10V. 2-Chloro- ethylvinyl Ether (110-75-8)	X			<0.0500	<0.488					1	mg/L	lb.	n/a	n/a	n/a
11V. Chloroform (67-66-3)	X			<0.00500	<0.049					1	mg/L	lb.	n/a	n/a	n/a
12V. Dichloro- bromomethane (75-27-4)	×			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
13V. Dichloro- difluoromethane (75-71-8)	X			<0.00500	<0.049					1	mg/L	lb.	n/a	n/a	n/a
14V. 1,1-Dichloro- ethane (75-34-3)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
15V. 1,2-Dichloro- ethane (107-06-2)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
16V. 1,1-Dichloro- ethylene (75-35-4)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
17V. 1,2-Dichloro- propane (78-87-5)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
18V. 1,3-Dichloro- propylene (542-75-6)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
19V Ethylbenzene (100-41-4)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
20V Methyl Bromide (74-83-9)	X			<0.00500	<0.049					1	mg/L	lb.	n/a	n/a	n/a
21V, Methyl Chloride (74-87-3)	\times			<0.00250	<0.024					1	mg/L	1b.	n/a	n/a	n/a

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CONTINUED FROM PAGE V-4

	2	. MARK "X"				3. E	FFLUENT				4. UN	TS	5. INTA	KE (optional	/)
1 POLLUTANT AND	a.	b	С	a MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availat		c. LONG TERM VALUE (<i>if ava</i>		d. NO. OF	a CONCEN-		a. LONG T AVERAGE V		b. NO. OF
CAS NUMBER (If available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	b MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
GC/MS FRACTION	- VOLATIL	E COMPO	JNDS (com	umed)											
22V. Methylene Chloride (75-09-2)	X			<0.00500	<0.049					1	mg/L	lb.	n/a	n/a	n/a
23V. 1,1,2,2- Tetrachloroethane (79-34-5)	×			<0.00100	<0.010					1	mg/L	lb.	n/a	n/a	n/a
24V. Tetrachloro- ethylene (127-18-4)	X			<0.00100	<0.010					1	mg/L	lb.	n/a	n/a	n/a
25V Toluene (108-88-3)	X			<0.00500	<0.049					1	mg/L	lb.	n/a	n/a	n/a
26V. 1,2-Trans- Dichloroethylene (156-60-5)	X			<0.00100	<0.010					1	mg/L	lb.	n/a	n/a	n/a
27V. 1,1,1-Trichloro- ethane (71-55-6)	X			<0.00100	<0.010					1	mg/L	lb.	n/a	n/a	n/a
28V 1,1,2-Trichloro- ethane (79-00-5)	X			<0.00100	<0.010					1	mg/L	lb.	n/a	n/a	n/a
29V Trichloro- ethylene (79-01-6)	X			<0.00100	<0.010					1	mg/L	lb.	n/a	n/a	n/a
30V. Trichloro- fluoromethane (75-69-4)	X			<0.00500	<0.049					1	mg/L	lb.	n/a	n/a	n/a
31V. Vinyl Chloride (75-01-4)	X			<0.00100	<0.010					1	mg/L	lb.	n/a	n/a	n/a
GC/MS FRACTION	- ACID CC	MPOUNDS													
1A. 2-Chlorophenol (95-57-8)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
2A. 2,4-Dichloro- phenol (120-83-2)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
3A, 2,4-Dimethyl- phenol (105-67-9)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
4A, 4,6-Dinitro-O- Cresol (534-52-1)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
5A. 2,4-Dinitro- phenol (51-28-5)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
6A, 2-Nitrophenol (88-75-5)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
7A. 4-Nitrophenol (100-02-7)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
8A, P-Chloro-M- Cresol (59-50-7)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
9A Pentachloro- phenol (87-86-5)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
10A. Phenol (108-95-2)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
11A, 2,4,6-Trichloro- phenol (88-05-2)	X	~		<0.0100	<0.098					1.	mg/L	lb.	n/a	n/a	n/a

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CONTINUED FROM THE FRONT

	2	2. MARK "X"	,			3. E	FFLUENT				4. UN	ITS		KE (optiona)
1 POLLUTANT AND	a.	b	C,	a MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if ava					a. LONG T AVERAGE V		
CAS NUMBER (ıf avaılable)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b NO. OF ANALYSES
GC/MS FRACTION	I – BASE/NE	EUTRAL CC	MPOUND	S								-			
1B. Acenaphthene (83-32-9)	X	"		<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
2B. Acenaphtylene (208-96-8)	X			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
3B. Anthracene (120-12-7)	X			<0.00100	<0.01				_	1	mg/L	lb.	n/a	n/a	n/a
4B. Benzidine (92-87-5)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
5B. Benzo (a) Anthracene (56-55-3)	×	1		<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
6B Benzo (<i>a</i>) Pyrene (50-32-8)	X			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
7B. 3,4-Benzo- fluoranthene (205-99-2)	X			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
8B. Benzo (<i>gln</i>) Perylene (191-24-2)	X			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
9B Benzo (k) Fluoranthene (207-08-9)	X			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)	X			<0.0100	<0.098			1		1	mg/L	lb.	n/a	n/a	n/a
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)	X			<0.00300	<0.029		-			1	mg/L	lb.	n/a	n/a	n/a
14B 4-Bromophenyl Phenyl Ether (101-55-3)	×			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
15B, Butyl Benzyl Phthalate (85-68-7)	X		L	<0.00300	<0.029					1	mg/L	lb.	n/a	n/a	n/a
16B. 2-Chloro- naphthalene (91-58-7)	×			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
17B, 4-Chloro- phenyl Phenyl Ether (7005-72-3)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
18B Chrysene (218-01-9)	X			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
19B Dibenzo (a,h) Anthracene (53-70-3)	X			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
20B. 1,2-Dichloro- benzene (95-50-1)	X			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
21B. 1,3-Di-chloro- benzene (541-73-1)	X	<u> </u>		<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a

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CONTINUED FROM PAGE V-6

,	2	. MARK <u>"X"</u>				3 E	FFLUENT				4. UN	ITS	5 INTA	AKE (optiona	/)
1. POLLUTANT AND	a.	b.	c	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 l (ıf avaılaı		c. LONG TERM VALUE (<i>if ava</i>			00110511		a. LONG T AVERAGE V	/ALUE	
CAS NUMBER (if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- BASE/N	EUTRAL CO	OMPOUND	S (continued)											
22B. 1,4-Dichloro- benzene (106-46-7)	X			<0.00100	<0.001					1	mg/L	lb.	n/a	n/a	n/a
23B. 3,3-Dichloro- benzidine (91-94-1)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
24B. Diethyl Phthalate (84-66-2)	X			<0.00300	<0.029					1	mg/L	lb.	n/a	n/a	n/a
25B. Dimethyl Phthalate (131 -11-3)	X			<0.00300	<0.029					1	mg/L	lb.	n/a	n/a	n/a
26B. Dr-N-Butyl Phthalate (84-74-2)	X			<0.00300	<0.029					1	mg/L	lb.	n/a	n/a	n/a
27B. 2,4-Dinitro- toluene (121-14-2)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
28B. 2,6-Dinitro- toluene (606-20-2)	X			<0.0100	<0.098		-			1	mg/L	lb.	n/a	n/a	n/a
29B. Di-N-Octyl Phthalate (117-84-0)	X			<0.00300	<0.029					1	mg/L	lb.	n/a	n/a	n/a
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
31B Fluoranthene (206-44-0)	X			<0.00100	<0.001					1	mg/L	lb.	n/a	n/a	n/a
32B. Fluorene (86-73-7)	X			<0.00100	<0.001					1	mg/L	lb.	n/a	n/a	n/a
33B. Hexachloro- benzene (118-74-1)	X			<0.00100	<0.001					1	mg/L	lb.	n/a	n/a	n/a
34B. Hexachloro- butadiene (87-68-3)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
35B. Hexachloro- cyclopentadiene (77-47-4)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
36B Hexachloro- ethane (67-72-1)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	X			<0.00100	<0.001					1	mg/L	lb.	n/a	n/a	n/a
38B Isophorone (78-59-1)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
39B. Naphthalene (91-20-3)	X			<0.00100	<0.001					1	mg/L	lb.	n/a	n/a	n/a
40B. Nitrobenzene (98-95-3)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
41B. N-Nitro- sodimethylamine (62-75-9)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
42B. N-Nitrosodi- N-Propylamine (621-64-7)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a

CONTINUED FROM THE FRONT

CONTINUEDTRO		MARK "X	, -			3 E	FFLUENT				4. UNI	TS	5 INTA	KE (optiona	7
1. POLLUTANT AND	а	b	С	a, MAXIMUM DA	ILY VALUE	b MAXIMUM 30 [c. LONG TERM VALUE (if ava					a. LONG TI AVERAGE V		
CAS NUMBER (if available)	TESTING	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	I – BASE/NI	EUTRAL CO	MPOUND												
43B. N-Nitro- sodiphenylamine (86-30-6)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
44B Phenanthrene (85-01-8)	X	_		<0.00100	<0.001					1	mg/L	lb.	n/a	n/a	n/a
45B. Pyrene (129-00-0)	X			<0.00100	<0.001	:				1	mg/L	lb.	n/a	n/a	n/a
46B. 1,2,4-Tri- chlorobenzene (120-82-1)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
GC/MS FRACTIO	N - PESTIC	IDES								, -					
1P. Aldrin (309-00-2)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
2P. α-BHC (319-84-6)	X			<0.000050	<5e-4				=	1	mg/L	lb.	n/a	n/a	n/a
3P. β-BHC (319-85-7)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
4P γ-BHC (58-89-9)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
5P. δ-BHC (319-86-8)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
6P. Chlordane (57-74-9)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
7P. 4,4'-DDT (50-29-3)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
8P. 4,4'-DDE (72-55-9)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
9P. 4,4'-DDD (72-54-8)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
10P. Dieldrin (60-57-1)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
11P. α-Enosulfan (115-29-7)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
12P. β-Endosulfan (115-29-7)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
13P Endosulfan Sulfate (1031-07-8)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
14P Endrin (72-20-8)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
15P. Endrin Aldehyde (7421-93-4)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
16P. Heptachlor (76-44-8)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a

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CONTINUED FROM PAGE V-8

CONTINUED FRUI	IVI PAGE V-C	,													
-	2	. MARK "X'	p .			3. E	FFLUENT				4 UNI	TS	5. INTA	KE (optiona	/)
1. POLLUTANT AND	a.	b.	С	a. MAXIMUM DA	ILY VALUE	b MAXIMUM 30 [(<i>if availab</i>		c. LONG TERM VALUE (if ava		4 110 00	- CONCEN	·	a. LONG T AVERAGE V		b. NO. OF
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
GC/MS FRACTION	I – PESTICII	DES (contin	ued)												
17P. Heptachlor Epoxide (1024-57-3)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
18P. PCB-1242 (53469-21-9)	X			<0.000500	<0.005					1	mg/L	lb.	n/a	n/a	n/a
19P. PCB-1254 (11097-69-1)	X			<0.000500	<0.005			-		1	mg/L	lb.	n/a	n/a	n/a
20P. PCB-1221 (11104-28-2)	X			<0.000500	<0.005					1	mg/L	lb.	n/a	n/a	n/a
21P. PCB-1232 (11141-16-5)	X			<0.000500	<0.005					1	mg/L	lb.	n/a	n/a	n/a
22P. PCB-1248 (12672-29-6)	X			<0.000500	<0.005				ļ	1	mg/L	lb.	n/a	n/a	n/a
23P. PCB-1260 (11096-82-5)	X			<0.000500	<0.005				1	1	mg/L	lb.	n/a	n/a	n/a
24P. PCB-1016 (12674-11-2)	X			<0.000500	<0.005					1	mg/L	lb.	n/a	n/a	n/a
25P. Toxaphene (8001-35-2)	X			<0.000500	<0.005					1	mg/L	lb.	n/a	n/a	n/a

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages. SEE INSTRUCTIONS.

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V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.

PART A -You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

_			1	2. EFFLUE	ENT			3, UNI (specify if			4. INTAKE (optional)	
	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availa		c LONG TERM AVR (ıf avaılable		d, NO OF	a. CONCEN-		a. LONG AVERAGE		b. NO. OF
1. POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
a. Biochemical Oxygen Demand (BOD)	3.9	762.1	3.9	762.1	1.4	185.7	12	mg/L	lb.	n/a	n/a	n/a
b. Chemical Oxygen Demand (COD)	33.7	4898	33.7	4898	4.37	458.6	12	mg/L	1b.	n/a	n/a	n/a
c. Total Organic Carbon (TOC)	12.8	1135					1	mg/L	lb.	n/a	n/a	n/a
d. Total Suspended Solids (TSS)	10.6	939.7		-			1	mg/L	lb.	n/a	n/a	n/a
e. Ammonia (as N)	0.410	36.3					1	mg/L	lb.	n/a	n/a	n/a
f. Flow	VALUE 34.7	91	VALUE 26.8	13	VALUE 14.556		1095	MGD	MGD	VALUE n/a	a.	n/a
g. Temperature (winter)	VALUE 22.	0	VALUE 18.	8	VALUE 14.1		188	°C		VALUE n/a	a	n/a
h Temperature (summer)	VALUE 33.	0	VALUE 31.	1	VALUE 30.0		190	°C		VALUE n/a	a	n/a
ı. pH	MINIMUM 6.11	MAXIMUM 8.16	MINIMUM n/a	MAXIMUM n/a			647	STANDAR	D UNITS			

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

	2 MA	RK "X"			3.	EFFLUENT				4. UNI	ſS	5. INT	AKE (optiona	ıl)
1. POLLUTANT AND	a	ь	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM A' (If availa			00110511		a. LONG TERM A VALUE		
CAS NO. (if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X	1											
b. Chlorine, Total Residual	X		0.14	12.4					1	mg/L	lb.	n/a	n/a	n/a
c. Color	X		27	n/a					1	PCU	n/a	n/a	n/a	n/a
d Fecal Coliform	X		est. 2	n/a					1	col/dL	n/a	n/a	n/a	n/a
e. Fluoride (16984-48-8)	X		35.1	4110	35.1	4110	17.3	1783	12	mg/L	lb.	n/a	n/a	n/a
f. Nitrate-Nitrite (as N)	X		2.4	442.9	2.4	442.9	1.04	127.5	36	mg/L	lb.	n/a	n/a	n/a

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CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

	2. MAF				3.	EFFLUENT				4. UNI	TS	5. INT/	AKE (optiona	ıl)
1. POLLUTANT AND		h	a. MAXIMUM DA	ULY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM AV					a. LONG TE AVERAGE V	ERM ALUE	
CAS NO. (ıf avaılable)	a. BELIEVED PRESENT	b. BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)	X		0.362	32.1					1	mg/L	lb.	n/a	n/a	n/a
h. Oil and Grease	X		<4.76	<422				••••	1	mg/L	lb.	n/a	n/a	n/a
ı. Phosphorus (as P), Total (7723-14-0)	X		1.2	154	1.2	154	0.8	85.8	36	mg/L	1b.	n/a	n/a	n/a
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO ₄) (14808-79-8)	X		105	9309					1	mg/L	lb.	n/a	n/a	n/a
I. Sulfide (as S)		X												
m. Sulfite (as SO ₃) (14265-45-3)		X												
n. Surfactants	X		0.552	48.9					1	mg/L	lb.	n/a	n/a	n/a
o. Alumınum, Total (7429-90-5)	X		1.27	112.6					1	mg/L	lb.	n/a	n/a	n/a
p. Barium, Total (7440-39-3)		X												
q Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s Iron, Total (7439-89-6)	X		1.15	102.0					1	mg/L	lb.	n/a	n/a	n/a
t. Magnesium, Total (7439-95-4)	X		2.26	200.4					1	mg/L	lb.	n/a	n/a	n/a
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)	X		0.069	6.12					1	mg/L	lb.	n/a	n/a	n/a
w. Tin, Total (7440-31-5)		X												
x. Tıtanium, Total (7440-32-6)		X												

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER
NCD 047 368 642 002

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired for fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater if you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part, please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

addition		nd requirement				3 F	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	<u>Λ</u>
1. POLLUTANT AND	а	Ь	C	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availal	DAY VALUE	c. LONG TERN VALUE (<i>yf avo</i>		1 110 05			a. LONG T AVERAGE V	ERM	b NO OF
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
METALS, CYANID	E, AND TO	TAL PHENC	LS												
1M. Antimony, Total (7440-36-0)	X			<0.002	<0.177					1	mg/L	lb.	n/a	n/a	n/a
2M Arsenic, Total (7440-38-2)	X			<0.005	<0.443					1	mg/L	lb.	n/a	n/a	n/a
3M. Beryllium, Total (7440-41-7)	X			<0.001	<0.089					1	mg/L	lb.	n/a	n/a	n/a
4M Cadmium, Total (7440-43-9)	X			<0.002	<0.177					1	mg/L	lb.	n/a	n/a	n/a
5M, Chromium, Total (7440-47-3)	X			<0.005	<0.433				•	1	mg/L	1b.	n/a	n/a	n/a
6M. Copper, Total (7440-50-8)	X			0.005	0.443					1	mg/L	lb.	n/a	n/a	n/a
7M. Lead, Total (7439-92-1)	X			<0.003	<0.266					1	mg/L	lb.	n/a	n/a	n/a
8M Mercury, Total (7439-97-6)	X			<0.0002	<0.018					1	mg/L	lb.	n/a	n/a	n/a
9M. Nickel, Total (7440-02-0)	X			<0.005	<0.433					1	mg/L	lb.	n/a	n/a	n/a
10M. Selenium, Total (7782-49-2)	X			<0.005	<0.433					1	mg/L	lb.	n/a	n/a	n/a
11M. Silver, Total (7440-22-4)	X			<0.002	<0.177					1	mg/L	lb.	n/a	n/a	n/a
12M. Thallium, Total (7440-28-0)	X			<0.005	<0.433					1	mg/L	lb.	n/a	n/a	n/a
13M. Zinc, Total (7440-66-6)	X			0.008	0.709			-		1	mg/L	lb.	n/a	n/a	n/a
14M. Cyanide, Total (57-12-5)	X			<0.005	<0.433					1	mg/L	lb.	n/a	n/a	n/a
15M. Phenols, Total	X			0.0433	3.84					1	mg/L	lb.	n/a	n/a	n/a
DIOXIN	1	- I			-										
2,3,7,8-Tetra- chlorodibenzo-P- Dioxin (1764-01-6)			X	DESCRIBE RES	ULTS ^{Not} a	pplicable			,						

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CONTINUED FRO		2 MARK "X"	·			3. E	FFLUENT				4 UN	ITS	5. INTA	KE (optiona	/)
1 POLLUTANT AND		ь	С	a MAXIMUM DAI	I Y VALUE	b. MAXIMUM 30 [(If availab		c. LONG TERM VALUE (if ava					a. LONG TE AVERAGE V		
CAS NUMBER (If available)	a TESTING REQUIRED		BELIEVED ABSENT	(1)	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS_	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b NO. OF ANALYSES
GC/MS FRACTION	I – VOLATII	E COMPOL	JNDS				•								
1V. Accrolein (107-02-8)	X			<0.0500	<4.433					1	mg/L	lb.	n/a	n/a	n/a
2V. Acrylonitrile (107-13-1)	X			<0.0100	<0.887				·	1	mg/L	lb.	n/a	n/a	n/a
3V. Benzene (71-43-2)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
4V, Bis (Chloro- methyl) Ether (542-88-1)			X	Not Req	ired	per NCDWR	NPDES	Permitt'g	Unit						
5V Bromoform (75-25-2)	X			<0.00100	<0.089		-			1	mg/L	lb.	n/a	n/a	n/a
6V. Carbon Tetrachloride (56-23-5)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
7V. Chlorobenzene (108-90-7)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
8V. Chlorodi- bromomethane (124-48-1)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
9V. Chloroethane (75-00-3)	X			<0.00500	<0.443					1	mg/L	lb.	n/a	n/a	n/a
10V. 2-Chloro- ethylvinyl Ether (110-75-8)	X			<0.0500	<4.433					1	mg/L	lb.	n/a	n/a	n/a
11V. Chloroform (67-66-3)	X			0.0248	2.199					1	mg/L	lb.	n/a	n/a	n/a
12V. Dichloro- bromomethane (75-27-4)	X			0.00422	0.374					1	mg/L	lb.	n/a	n/a	n/a
13V. Dichloro- difluoromethane (75-71-8)	X			<0.00500	<0.443					1	mg/L	lb.	n/a	n/a	n/a
14V. 1,1-Dichloro- ethane (75-34-3)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
15V. 1,2-Dichloro- ethane (107-06-2)	X			<0.00100	<0.089		ı			1	mg/L	lb.	n/a	n/a	n/a
16V. 1,1-Dichloro- ethylene (75-35-4)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
17V. 1,2-Dichloro- propane (78-87-5)	X			<0.00100	<0.089		-			1	mg/L	lb.	n/a	n/a	n/a
18V. 1,3-Dichloro- propylene (542-75-6)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
19V. Ethylbenzene (100-41-4)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
20V Methyl Bromide (74-83-9)	X			<0.00500	<0.443					1	mg/L	lb.	n/a	n/a	n/a
21V, Methyl Chloride (74-87-3)	X			<0.00250	<0.222					11	mg/L	lb.	n/a	n/a	.n/a

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CONTINUED FROM PAGE V-4

[2	2. MARK "X"	,		3. EFFLUENT							TS	5 INTAKE (optiona)
1. POLLUTANT AND				a, MAXIMUM DA	II V \/AI I IE	b. MAXIMUM 30 [(if availab		c. LONG TERM VALUE (<i>if ava</i>					a. LONG TE AVERAGE V		l
CAS NUMBER (If available)	a TESTING REQUIRED	b. BELIEVED PRESENT	c BELIEVED ABSENT	(1) CONCENTRATION		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75-09-2)	X			<0.00500	<0.443					1	mg/L	lb.	n/a	n/a	n/a
23V. 1,1,2,2- Tetrachloroethane (79-34-5)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
24V. Tetrachloro- ethylene (127-18-4)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
25V. Toluene (108-88-3)	X			<0.00500	<0.443					1	mg/L	lb.	n/a	n/a	n/a
26V. 1,2-Trans- Dichloroethylene (156-60-5)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
27V, 1,1,1-Trichloro- ethane (71-55-6)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
28V. 1,1,2-Trichloro- ethane (79-00-5)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
29V Trichloro- ethylene (79-01-6)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
30V. Trichloro- fluoromethane (75-69-4)	X			<0.00500	<0.443					1	mg/L	1b.	n/a	n/a	n/a
31V. Vinyl Chloride (75-01-4)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
GC/MS FRACTION	I – ACID CO	OMPOUNDS	3											-	
1A. 2-Chlorophenol (95-57-8)	X			<0.0100	<0.887					1	mg/L	lb.	n/a`	n/a	n/a
2A 2,4-Dichloro- phenol (120-83-2)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
3A. 2,4-Dimethyl- phenol (105-67-9)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
4A. 4,6-Dinitro-O- Cresol (534-52-1)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
5A. 2,4-Dinitro- phenol (51-28-5)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
6A, 2-Nitrophenol (88-75-5)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
7A. 4-Nitrophenol (100-02-7)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
8A. P-Chloro-M- Cresol (59-50-7)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
9A Pentachloro- phenol (87-86-5)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
10A. Phenol (108-95-2)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
11A. 2,4,6-Trichloro- phenol (88-05-2)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a

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CONTINUED FROM THE FRONT

	2	DNT 2. MARK "X'	,				FFLUENT	,			4. UN	ITS		(1) 1 1				
1. POLLUTANT AND	а.	h	C.	a. MAXIMUM DA	ILY VALUF	b. MAXIMUM 30 [(if availab		c. LONG TERM VALUE (if ava				AVERAGE VALUE						
CAS NUMBER (If available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b MASS	(1)		b NO. OF ANALYSES			
GC/MS FRACTION	- BASE/NE	UTRAL CO	MPOUND	s														
1B, Acenaphthene (83-32-9)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a			
2B. Acenaphtylene (208-96-8)	X			<0.00100	<0.089		-	-		1	mg/L	lb.	n/a	n/a	n/a			
3B. Anthracene (120-12-7)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a			
4B. Benzidine (92-87-5)	\times _			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a			
5B. Benzo (a) Anthracene (56-55-3)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a			
6B Benzo (a) Pyrene (50-32-8)	X			<0.00100	<0.089		,			1	mg/L	lb.	n/a	n/a	n/a			
7B. 3,4-Benzo- fluoranthene (205-99-2)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a			
8B. Benzo (g/n) Perylene (191-24-2)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a			
9B. Benzo (k) Fluoranthene (207-08-9)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a			
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a			
11B Bis (2-Chloro- ethyl) Ether (111-44-4)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a			
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)	X			<0.0100	<0.887			:		1	mg/L	lb.	n/a	n/a	n/a			
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)	X			<0.00300	<0.266					1	mg/L	lb.	n/a	n/a	n/a			
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	×			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a			
15B Butyl Benzyl Phthalate (85-68-7)	X			<0.00300	<0.266					1	mg/L	lb.	n/a	n/a	n/a			
16B. 2-Chloro- naphthalene (91-58-7)	×			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a			
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)	×			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a			
18B. Chrysene (218-01-9)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a			
19B. Dibenzo (<i>a,h</i>) Anthracene (53-70-3)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a			
20B. 1,2-Dichloro- benzene (95-50-1)	X			<0.00100	<0.089	-				1	mg/L	lb.	n/a	n/a	n/a			
21B. 1,3-Dı-chloro- benzene (541-73-1)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a			

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CONTINUED FROM		2. MARK "X'	н			3 E	FFLUENT				4. UNI	ITS	5 INTA	KE (optiona	ıl)
1. POLLUTANT AND				a, MAXIMUM DA	II Y VALLIE	b. MAXIMUM 30 [c. LONG TERM VALUE (<i>if ava</i>					a. LONG TERM AVERAGE VALUE		
CAS NUMBER (If available)	a TESTING REQUIRED	b BELIEVED PRESENT	c. BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d NO OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b NO. OF ANALYSES
GC/MS FRACTION	I - BASE/N	EUTRAL CO	OMPOUND	S (continued)											
22B. 1,4-Dichloro- benzene (106-46-7)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
23B. 3,3-Dichloro- benzidine (91-94-1)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
24B Diethyl Phthalate (84-66-2)	X			<0.00300	<0.226					1	mg/L	lb.	n/a	n/a	n/a
25B. Dimethyl Phthalate (131 -11-3)	X			<0.00300	<0.226					1	mg/L	lb.	n/a	n/a	n/a
26B. Di-N-Butyl Phthalate (84-74-2)	X			<0.00300	<0.226					1	mg/L	lb.	n/a	n/a	n/a
27B. 2,4-Dinitro- toluene (121-14-2)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
28B. 2,6-Dınitro- toluene (606-20-2)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
29B. Di-N-Octyl Phthalate (117-84-0)	X			<0.00300	<0.226					1	mg/L	lb.	n/a	n/a	n/a
30B 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
31B. Fluoranthene (206-44-0)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
32B. Fluorene (86-73-7)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
33B. Hexachloro- benzene (118-74-1)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
34B. Hexachloro- butadiene (87-68-3)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
35B. Hexachloro- cyclopentadiene (77-47-4)	X			<0.0100	<0.887	į			į	1	mg/L	lb.	n/a	n/a	n/a
36B Hexachloro- ethane (67-72-1)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
38B. Isophorone (78-59-1)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
39B. Naphthalene (91-20-3)	X			<0.00100	<0.089					1	mg/L	1b.	n/a	n/a	n/a
40B. Nitrobenzene (98-95-3)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
41B N-Nitro- sodimethylamine (62-75-9)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
42B. N-Nitrosodi- N-Propylamine (621-64-7)	X	-		<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a

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2. MARK "X"			3 EFFLUENT								5. INTAKE (optiona		al)		
1. POLLUTANT AND	а	b.	С	a MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(If availab		c. LONG TERM VALUE (if ava					a. LONG TI AVERAGE V		
CAS NUMBER TESTING (If available) REQUIRED	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED		(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	a CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION	I – BASE/NI	EUTRAL CO	MPOUND	S (continued)											
43B. N-Nitro- sodiphenylamine (86-30-6)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
44B Phenanthrene (85-01-8)	X	·		<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
45B. Pyrene (129-00-0)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
46B. 1,2,4-Tri- chlorobenzene (120-82-1)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
GC/MS FRACTIO	N – PESTIC	IDES		•		•							, ,		1
1P. Aldrin (309-00-2)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
2P. α-BHC (319-8 4- 6)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
3P. β-BHC (319-85-7)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
4P. γ-BHC (58-89-9)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
5P. δ-BHC (319-86-8)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
6P. Chlordane (57-74-9)	X			<0.000050	<0.044					1	mg/L	lb.	n/a	n/a	n/a
7P. 4,4'-DDT (50-29-3)	X			<0.000050	<0.005					1	mg/L	1b.	n/a	n/a	n/a
8P. 4,4'-DDE (72-55-9)	X			<0.000050	<0.005	.,,				1	mg/L	lb.	n/a	n/a	n/a
9P. 4,4'-DDD (72-54-8)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
10P, Dieldrin (60-57-1)	X		ļ	<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
11P. α-Enosulfan (115-29-7)	$\mid X \mid$	-	ļ	<0.000050	<0.005		•			1	mg/L	lb.	n/a	n/a	n/a
12P. β-Endosulfan (115-29-7)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
13P. Endosulfan Sulfate (1031-07-8)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
14P Endrin (72-20-8)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
15P. Endrin Aldehyde (7421-93-4)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
16P. Heptachlor (76-44-8)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a

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EPA I.D. NUMBER (copy from Item 1 of Form 1)

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	1	2. MARK "X	n	T	3 EFFLUENT						4. UNITS		5. INTA)	
	a.	ь	С	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if ava			- CONCEN		a, LONG T AVERAGE \		ь NO. OF
	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
GC/MS FRACTION	I – PESTICI	DES (contin	ned)												
17P Heptachlor Epoxide (1024-57-3)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
18P. PCB-1242 (53469-21-9)	X			<0.000500	<0.044					1	mg/L	lb.	n/a	n/a	n/a
19P PCB-1254 (11097-69-1)	X			<0.000500	<0.044					1	mg/L	lb.	n/a	n/a	n/a
20P PCB-1221 (11104-28-2)	X			<0.000500	<0.044					1	mg/L	lb.	n/a	n/a	n/a
21P. PCB-1232 (11141-16-5)	X			<0.000500	<0.044					1	mg/L	lb.	n/a	n/a	n/a
22P. PCB-1248 (12672-29-6)	X			<0.000500	<0.044					1	mg/L	lb.	n/a	n/a	n/a
23P. PCB-1260 (11096-82-5)	X			<0.000500	<0.044					1	mg/L	lb.	n/a	n/a	n/a
24P. PCB-1016 (12674-11-2)	X			<0.000500	<0.044					1	mg/L	lb.	n/a	n/a	n/a
25P. Toxaphene (8001-35-2)	X			<0.000500	<0.044					_ 1	mg/L	lb.	n/a	n/a	n/a

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Sludge Management Plan

The Chemours Company – Fayetteville Works operates a Class 3 Wastewater Treatment Plant which is comprised of a single-stage activated sludge biological system.

Excess sludge is removed from the system by diverting part of the Recycled Activated Sludge (at approximately 0.6% solids) from the clarifiers to a Dissolved Air Floatation ("DAF") unit for initial thickening.

The sludge from the DAF (at approximately 3% solids) is transferred to a Mix Tank where polymer agents are added to enhance the dewatering process.

The semi-thickened sludge is transferred from the Mix Tank to a Rotary Filter for final thickening, whereby the sludge is thickened to 6% solids.

The thickened sludge is then transferred to a Screw Press where it is dewatered to a concentration of 9-20% solids.

Following the Screw Press, the sludge is typically dried in steam heated dryers to a concentration of 40-55% solids.

The dried sludge, or on occasion the dewatered sludge, is transported off-site to a commercial Subtitle D landfill. This sludge is currently being disposed of at the Waste Industries "Sampson County" Landfill near Roseboro, NC.

In 2015, the average weekly quantity of generated wasted sludge was approximately 35,000 lb.

Michael E. Johnson, PE-Environmental Manager

Current Facility Wastewater Management

Process wastewater and stormwater from the various manufacturing areas are collected in the respective area sumps and ultimately conveyed via a gravity flow underground process sewer pipe to the facility's central wastewater treatment plant ("WWTP"). Sanitary sewage is conveyed via a separate underground sewer system to the WWTP. The permitted flowrate of the WWTP is 2.0 MGD, with an actual average flowrate of approximately 1.2 MGD.

This untreated process wastewater is commingled in the WWTP Influent Sump where it is pumped to an 850,000-gallon Equalization Basin. The Equalization Basin is mixed with two floating submerged mixers. Three floating surface aerators in the basin cool and aerate the incoming wastewater.

A 175,000-gallon Emergency Retention Tank is available for temporary storage of untreated wastewater which may need additional treatment or acclimation in the WWTP activated sludge process at a controlled rate that allows for proper biological treatment.

Untreated wastewater from the Equalization Basin is normally pumped to a 250,000-gallon Predigester Tank in which initial biological activity with the WWTP activated sludge begins. The Predigester Tank is aerated. The partially treated wastewater from the Predigester Tank is pumped to a 1,700,000-gallon Aeration Tank.

The Aeration Tank is the unit where the majority of the biological activity occurs. The Aeration Tank is aerated primarily by a diffused air system located in the bottom of the tank. The tank can have supplemental aeration via one or two floating Biomixers® that injects air through submerged rotors.

The biologically treated wastewater is then sent to one of two in-ground clarifiers (119,000 gallons and 168,000 gallons respectively) or an above-ground 679,000-gallon clarifier; with all clarifiers being operated in parallel. The clarified treated effluent is discharged to and through Outfall 001.

The wasted activated sludge is sent to a Dissolved Air Floatation (DAF) unit, then to a 47,000 gallon Sludge Storage Tank, and finally to a Rotary Filter for thickening. The thickened sludge is dewatered in a Sludge Press, and can be dried in a steam-heated dryer for additional moisture removal. The dewatered sludge or dewatered/dried sludge is transported off-site to a commercial Subtitle D landfill.

Non-contact process cooling water and non-process stormwater are conveyed via surface ditches. In addition, excess riverwater flow and Outfall 001 effluent are discharged directly to a surface ditch. The combined, total flow of water from the site is discharged through and monitored at Outfall 002. The discharged treated wastewater is conveyed via an underground pipe to the Cape Fear River, where it enters the river at a point approximately 1,500 feet upstream of the William O. Huske Lock & Dam (a.k.a Lock & Dam No. 3).

Current Facility Operating Conditions

Chemours Fluoromonomers/Nafion® Membrane Manufacturing Area:

The Chemours Company – Fayetteville Works' Fluoromonomers / Nafion® Membrane manufacturing area produces several final products. ChemoursTM Nafion® Membrane is a plastic film used in the chloroalkali industry and in electrochemical fuel cells. ChemoursTM Nafion® Polymer Dispersions are used in the fabrication of thin films and coating formulations for fuel cells membranes, catalyst coatings, sensors, and a variety of electrochemical applications. The HFPO monomer and the Vinyl Ether monomers are used to manufacture various fluorochemical products such as ChemoursTM Teflon®. Wastewater generated from this manufacturing facility is discharged to the Chemours' wastewater treatment plant.

Chemours Polymer Processing Aid ("PPA") Manufacturing Area:

The Chemours Company – Fayetteville Works' PPA manufacturing area produces a polymer processing aid. The processing aid produced in this unit is used in the manufacturing of fluoropolymers and fluorinated telomers, but none of the produced processing aid is used at the Fayetteville Works site. All process wastewater generated from this manufacturing facility is collected and shipped off-site for disposal. No process wastewater from this manufacturing facility is discharged to the Chemours' wastewater treatment plant or to the Cape Fear River.

Kuraray Butacite® Manufacturing Area:

The Kuraray America Inc. – Fayetteville Plant's Butacite® manufacturing area produces two final products. KurarayTM Butacite® Interlayer plastic sheeting is the final product used in safety glass such as automobile windshields. Polyvinyl butyral resin is shipped off-site as a transfer to other Kuraray locations for final processing. Wastewater generated from this manufacturing facility is discharged to the Chemours' wastewater treatment plant.

Kuraray SentryGlas® Manufacturing Area:

The Kuraray America Inc. − Fayetteville Plant's SentryGlas® manufacturing area produces Kuraray™ SentryGlas® ionoplast interlayer laminate. SentryGlas® interlayer is used for laminated safety glass in side, rear, and overhead automobile windows. It is also used in architectural applications desiring safety glass. There is no contact process wastewater generated from this manufacturing facility, therefore only sanitary waste from this area is treated in the Chemours' wastewater treatment plant. This manufacturing facility does discharge non-contact cooling water to a surface ditch and ultimately to Outfall 002.

DuPont Polyvinyl Fluoride ("PVF") Manufacturing Area:

The DuPont Company – Fayetteville Works' PVF manufacturing area produces polyvinyl fluoride resin that is used in the electronics industry as a backing for photovoltaic cells, as well as many other uses. Wastewater generated from this manufacturing facility is discharged to the Chemours' wastewater treatment plant.

Alternate Application Schedule for §316(b) of the Clean Water Act

Final regulations implementing §316(b) of the Clean Water Act, which establish requirements for cooling water intake structures at existing facilities, were published in the Federal Register on August 15, 2014 with an effective date of October 14, 2014.

The Chemours Company – Fayetteville Works ("Chemours") operates a cooling water intake structure on the Cape Fear River that is subject to this new Federal Cooling Water Intake Structure Rule ("the Rule") as codified in 40 CFR Part 125.

The Rule requires the owner or operator of a facility subject to Subpart J whose currently effective permit expires after July 14, 2018, to submit to the Director the information required in the applicable provisions of 40 CFR 122.21(r) when applying for a subsequent permit.

Pursuant to 40 CFR 125.95(a)(2), the owner or operator of a facility subject to Part 125 Subpart J, "Requirements Applicable to Cooling Water Intake Structures for Existing Facilities Under Section 316(b) of the Clean Water Act", whose currently effective permit expires prior to July 14, 2018, may request the Director to establish an alternate schedule for the submission of the information required in 40 CFR 122.21(r) when applying for a subsequent (renewed) permit.

On October 20, 2015, a letter was sent from Michael E. Johnson, Environmental Manager, Chemours Company – Fayetteville Works, to Dr. Sergei Chernikov, NCDEQ Division of Water Resources' NPDES Complex Permitting Unit, requesting an alternate schedule whereby all the materials required by the Rule will be submitted with the 2021 renewal application.

On February 26, 2016, a letter was sent from S. Jay Zimmerman, Director, NCDEQ Division of Water Resources, to Michael E. Johnson, Environmental Manager, Chemours Company – Fayetteville Works, wherein the requested alternate schedule for submission of required CWIS information with the next permit renewal in 2021 was approved. A copy of Mr. Zimmerman's letter is attached to this application package.





DONALD R. VAN DER VAART

Secretary

S. JAY ZIMMERMAN

Director

February 26, 2016

Mr. Michael E. Johnson, P.E. Environmental Manager Chemours Company 22828 NC Highway 87 West Fayetteville, North Carolina 28306-7332

Subject:

Alternate CWA 316(b) Application Schedule

NPDES Permit NC0003573

Fayetteville Works Bladen County

Dear Mr. Johnson:

The Clean Water Act Section 316(b) Cooling Water Intake Structure (CWIS) Final Rule outlines regulations and standards for the design and operation of cooling water intake structures under the NPDES program. Your current permit expires October 31, 2016, with renewal application due by May 4, 2016. Since your permit expires prior to July 14, 2018, under 40 CFR 125.95(a)(2), you have requested an alternative schedule for submission of CWIS permit application information required in 40 CFR Part 122.21(r). Based on Division review, an alternate schedule for submission of required CWIS information with the next permit renewal in 2021 is approved. This schedule date will be established in the 2016 permit renewal as well.

Please note that facilities should begin to adapt their systems to comply with CWA Section 316(b) requirements. If you have any questions, please contact Tom Belnick with the NPDES Permitting Unit at 919-807-6390 or via email: tom.belnick@ncdenr.gov.

Sincerely,

S. Jay Zimmerman, P.G.

Director, Division of Water Resources

Cc:

NPDES File

Central File

Ec:

US EPA Region 4

US FWS NC WRC

NC DWR/Fayetteville Region

Supplemental Information - Permit Renewal Application - April 27, 2016

Elimination of Monitoring Requirement for PFOA

In December 2002, the DuPont Company – Fayetteville Works began production of ammonium perfluorooctanoate ("APFO"), which is the ammonium salt of perfluorooctanoic acid ("PFOA").

The renewed NPDES Permit No. NC0003573 that became effective on July 1, 2007, included a requirement for monthly monitoring of PFOA at Outfall 002.

In 2006 the North Carolina Division of Water Quality ("DWQ"), in consultation with the North Carolina Division of Waste Management and the North Carolina Department of Health and Human Services, established an Interim Maximum Allowable Concentration ("IMAC") of 2 μ g/L for PFOA, which was intended for the protection of groundwater as a source of drinking water.

Following the issuance of this temporary health-based level, DWQ requested the assistance of the North Carolina Secretary's Science Advisory Board on Toxic Air Pollutants ("NCSAB") in reviewing the toxicological literature on PFOA and recommending to DWQ an update of the IMAC for PFOA in groundwater. On August 10, 2012, the NCSAB issued their recommendation to DWQ that the IMAC for PFOA in groundwater be reduced to 1 μ g/L.

During the 3-year period from 2013 to 2015, the average monthly concentration of the final effluent discharge at Outfall 002 was 0.027 $\mu g/L$ PFOA, with a maximum concentration of 0.088 $\mu g/L$ PFOA. During the same period, the average monthly concentration of the incoming water from the Cape Fear River to the site, which is 99% of the effluent flow at Outfall 002, was 0.012 $\mu g/L$ PFOA, with a maximum concentration of 0.031 $\mu g/L$ PFOA.

The production of APFO at this facility ceased in April 2013.

The Chemours Company – Fayetteville Works (formerly the DuPont Company – Fayetteville Works) is requesting that the monthly monitoring requirement for PFOA at Outfall 002 be eliminated in the renewed NPDES Permit No. NC0003573 for the following reasons:

- APFO is no longer manufactured at this facility and has not been produced at the facility since April 2013;
- APFO is not and has never been used as a process aid or a raw material at this facility;
- The 3-year average concentration at Outfall 002 was 0.027 μg/L PFOA, versus the current NC-DWR IMAC of 2 μg/L PFOA and the NCSAB recommended 1 μg/L PFOA; and
- PFOA is present at low concentrations throughout the Cape Fear River basin, and that background level of PFOA in the Cape Fear River water contributes to the concentration measured at Outfall 002.

Form 2C Permit Application - Bis(chloromethyl) ether

Bis(chloromethyl) ether (CAS No. 542-88-1) was not analyzed for, and consequently was not reported on Page V-4 of Form 2C for both Outfall 001 and Outfall 002.

On November 28, 2014, the State of Oregon's Department of Environmental Quality ("ODEQ") issued a memorandum (Note 1) addressing the issue of analyzing for bis(chloromethyl) ether ("BCME"). In this memorandum, ODEQ states:

"Based on the chemical's rapid hydrolysis in water, there are no analytical methods to measure BCME in water samples. Currently, the only analytical techniques available for this compound are for air samples. Region 10 EPA staff queried its Manchester Environmental Lab in Port Orchard, WA about potential analytical methods for BCME. Staff at the lab confirmed that there is no EPA method for BCME because of its rapid degradation in water."

Because of the lack of an EPA approved analytical method for bis(chloromethyl) ether in a water matrix, ODEQ concluded:

"Given its rapid hydrolysis in water, there are no recommended analytical methods for BCME in water samples. Because BCME is not quantifiable in wastewater, DEQ will not require permit holders to monitor or conduct reasonable potential analyses for this toxic pollutant."

In an April 13, 2106, email from Tom Belnick, Supervisor of the NCDEQ Division of Water Resources' NPDES Complex Permitting Unit, to Michael Johnson, Environmental Manager, Chemours Company – Fayetteville Works, Mr. Belnick stated:

"I checked with our DWR analytical lab, and they concur with Oregon's position and are not aware of any labs using even R&D methods for this analyte. Therefore, you can omit this parameter from your application renewal."

Note 1: http://www.deq.state.or.us/wq/standards/docs/toxics/BisChloromethylMemo.pdf